

Figure 1A

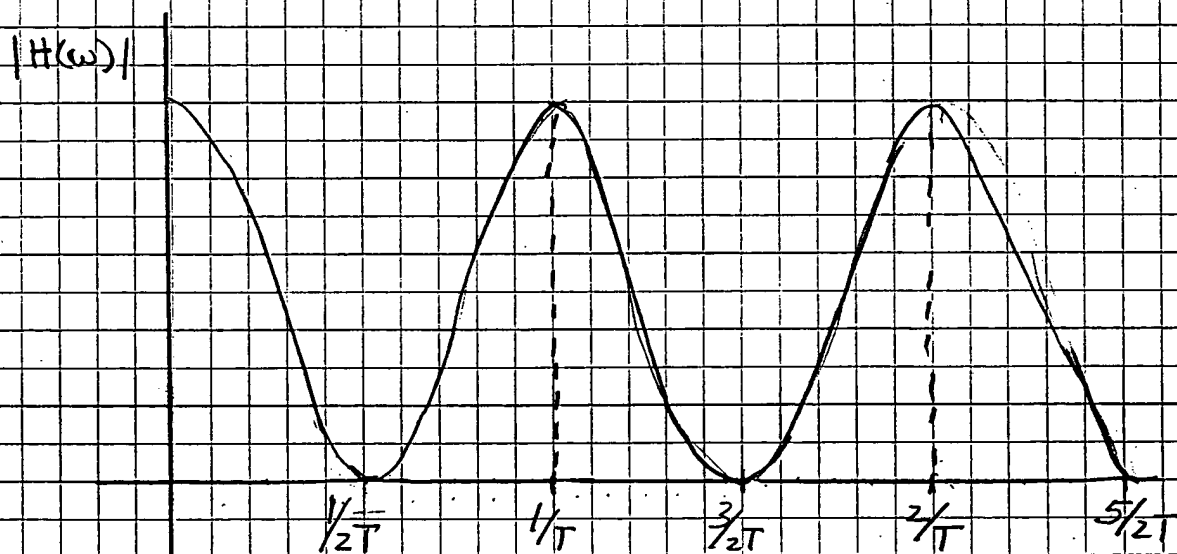


Figure 1B

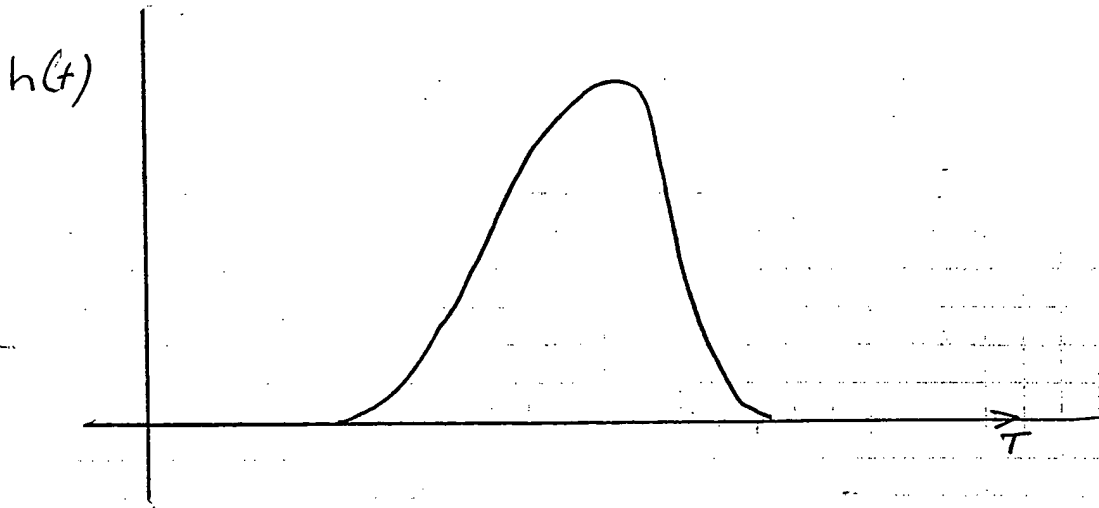


Figure 1C.

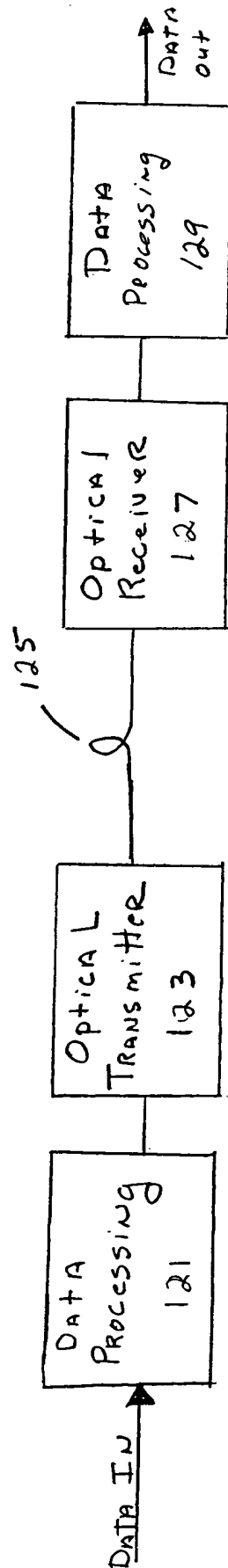
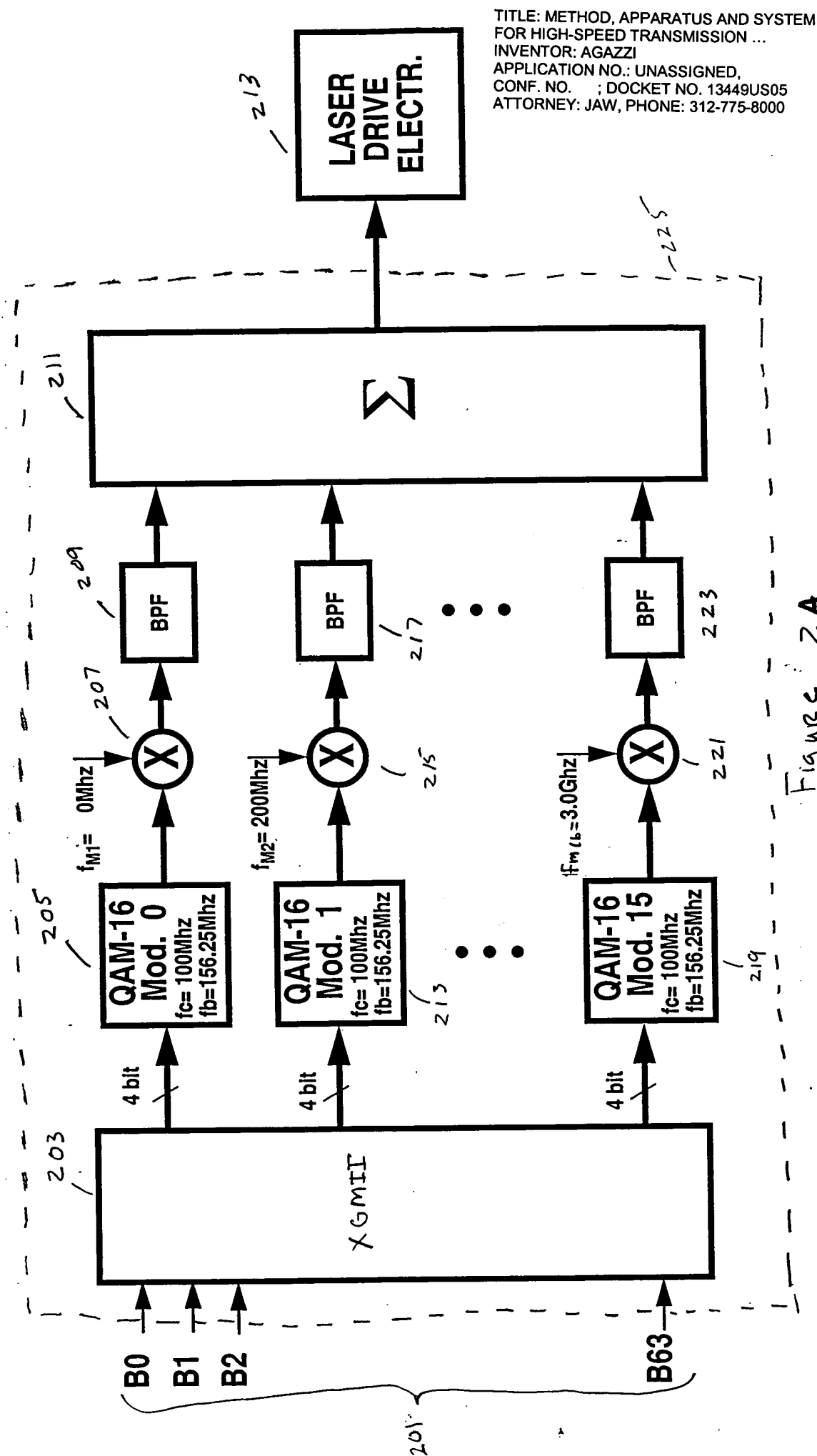


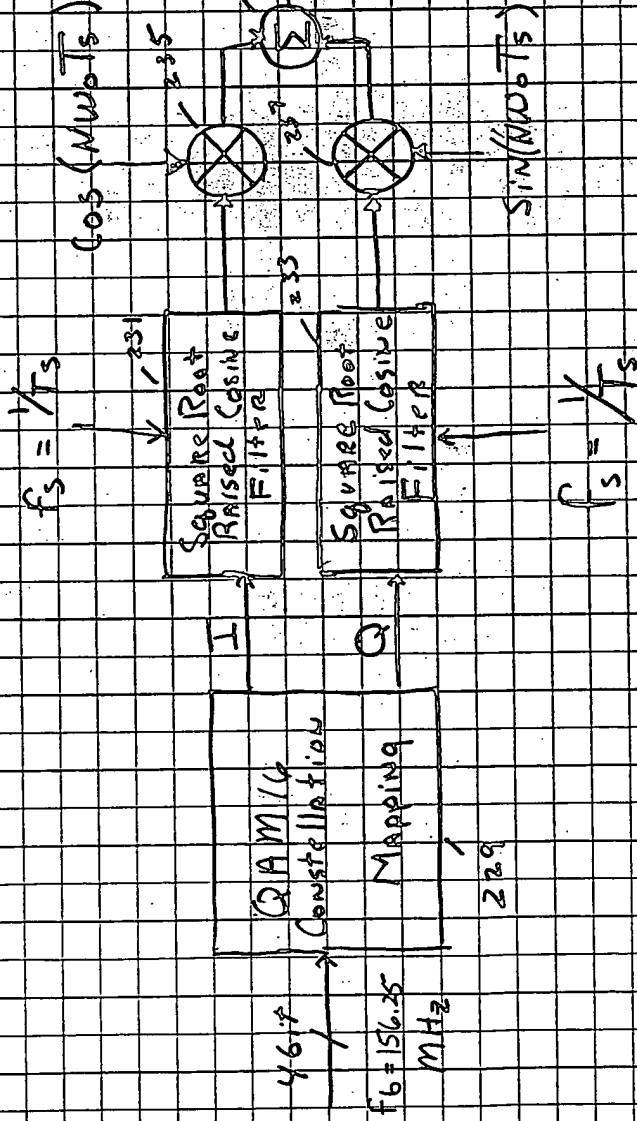
Figure #1D

# Multicarrier Modulation Block Diagram (Transmitter)



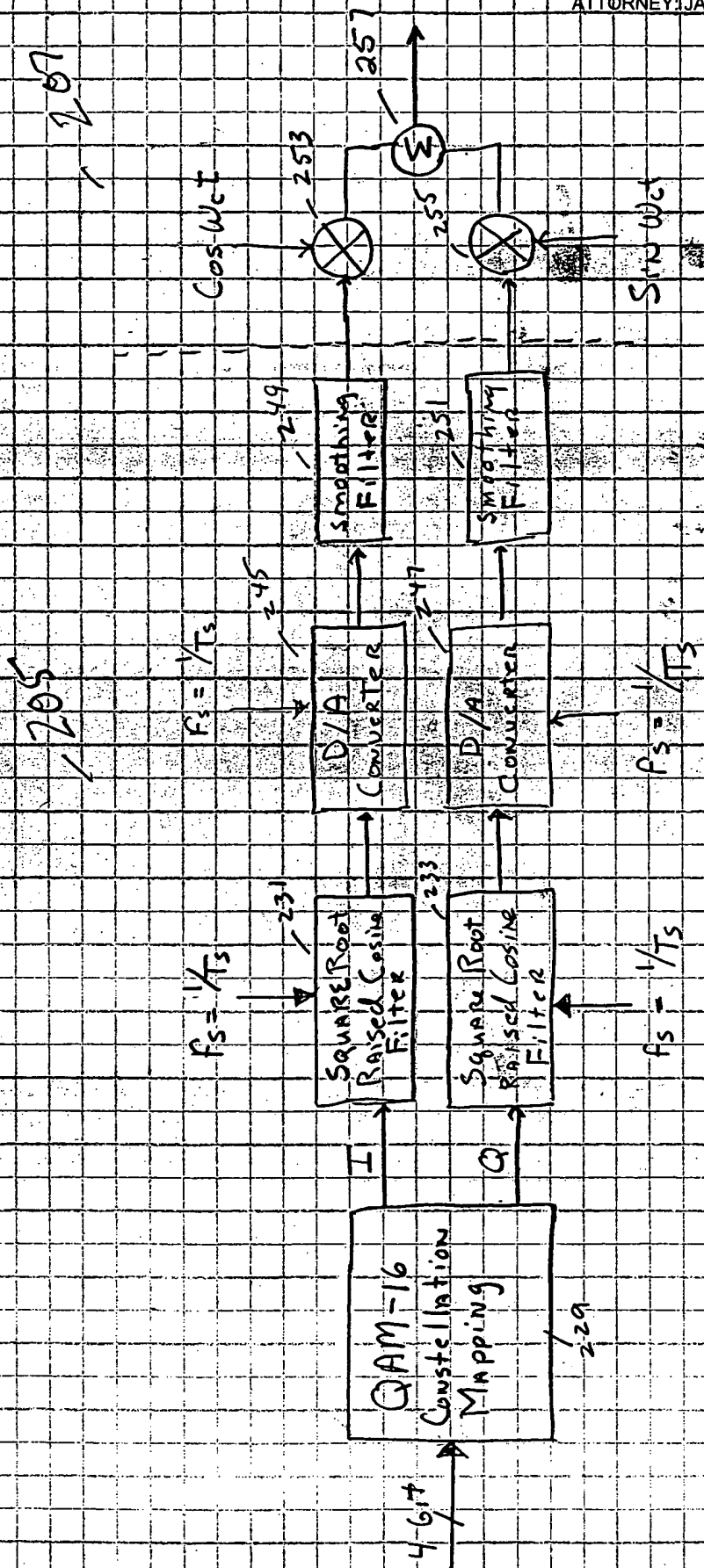
TITLE: METHOD, APPARATUS AND SYSTEM  
FOR HIGH-SPEED TRANSMISSION ...  
INVENTOR: AGAZZI  
APPLICATION NO.: UNASSIGNED,  
CONF. NO. ; DOCKET NO. 13449US05  
ATTORNEY: JAW, PHONE: 312-775-8000

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$T_s$  = Sampling Period - digital  
 $\omega_0 = 2\pi f_s$  = digital carrier angular frequencies.

Figure 2B



$T_s$  = Sampling period for DSP blocks  
 $\omega_c = 2\pi f_c$  = Analog carrier angular frequency

Figure 2C

# Multicarrier Modulation Block Diagram (Receiver)

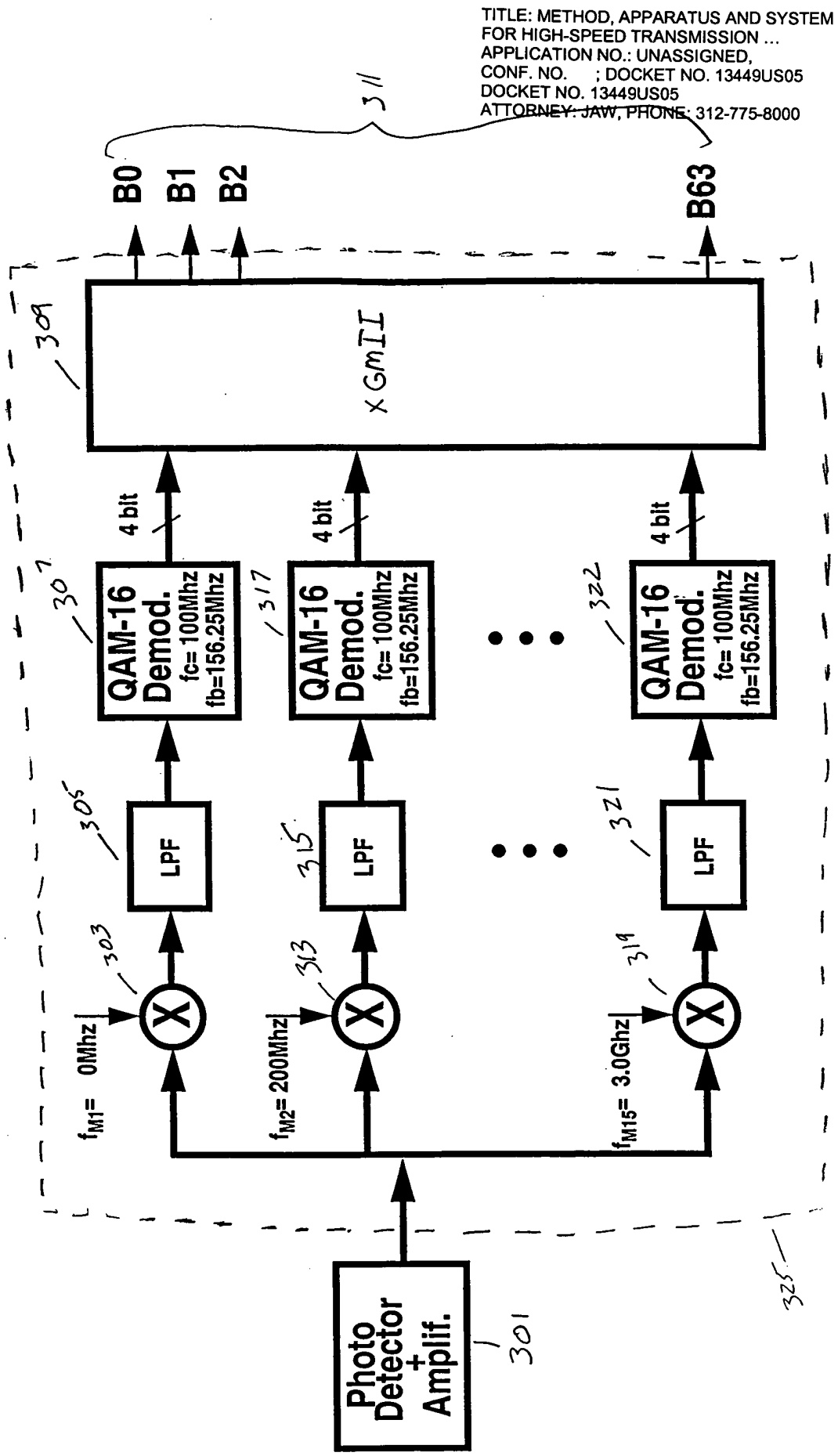
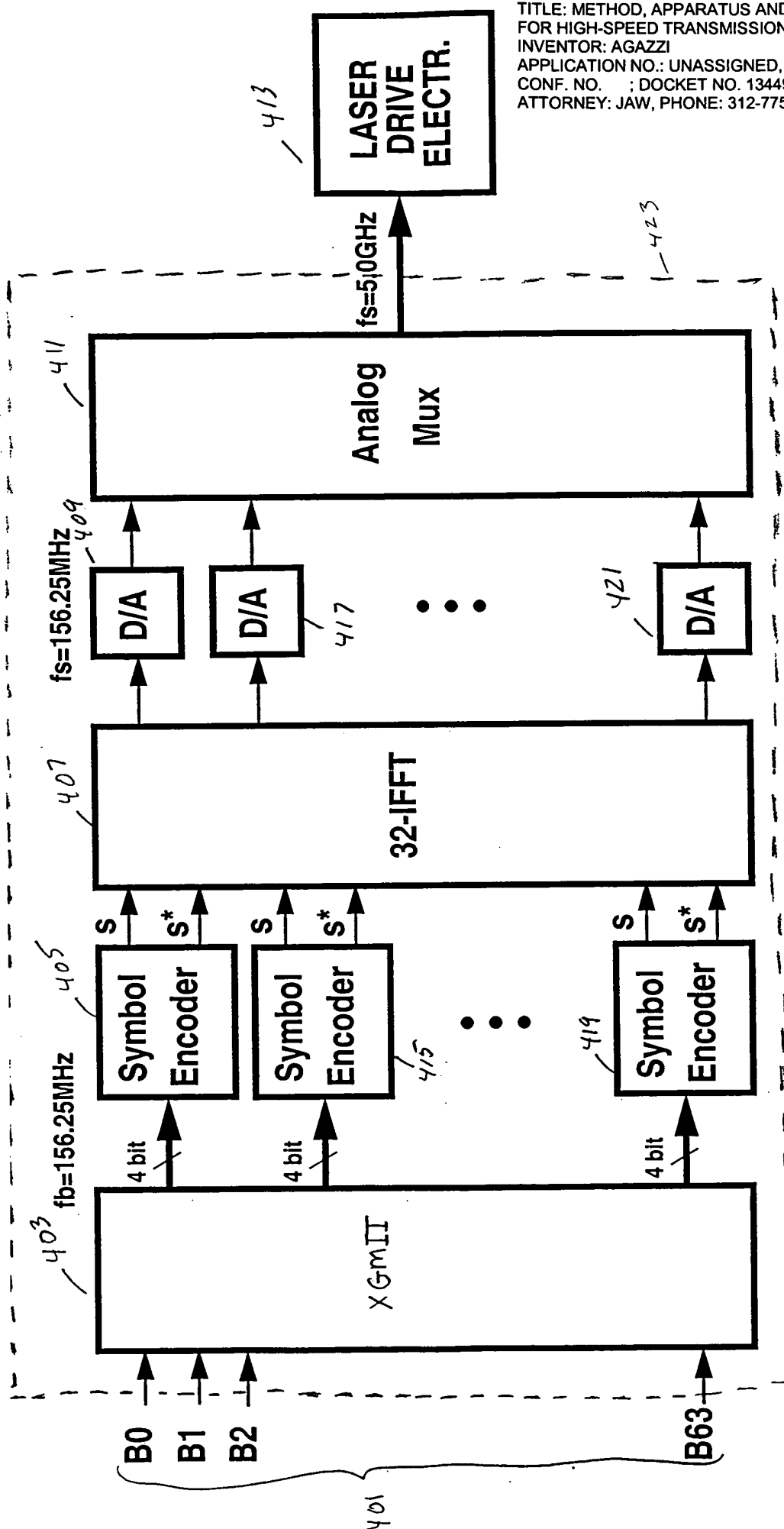


Figure 3

# Alternative Implementation of Multicarrier Modulation (Transmitter)

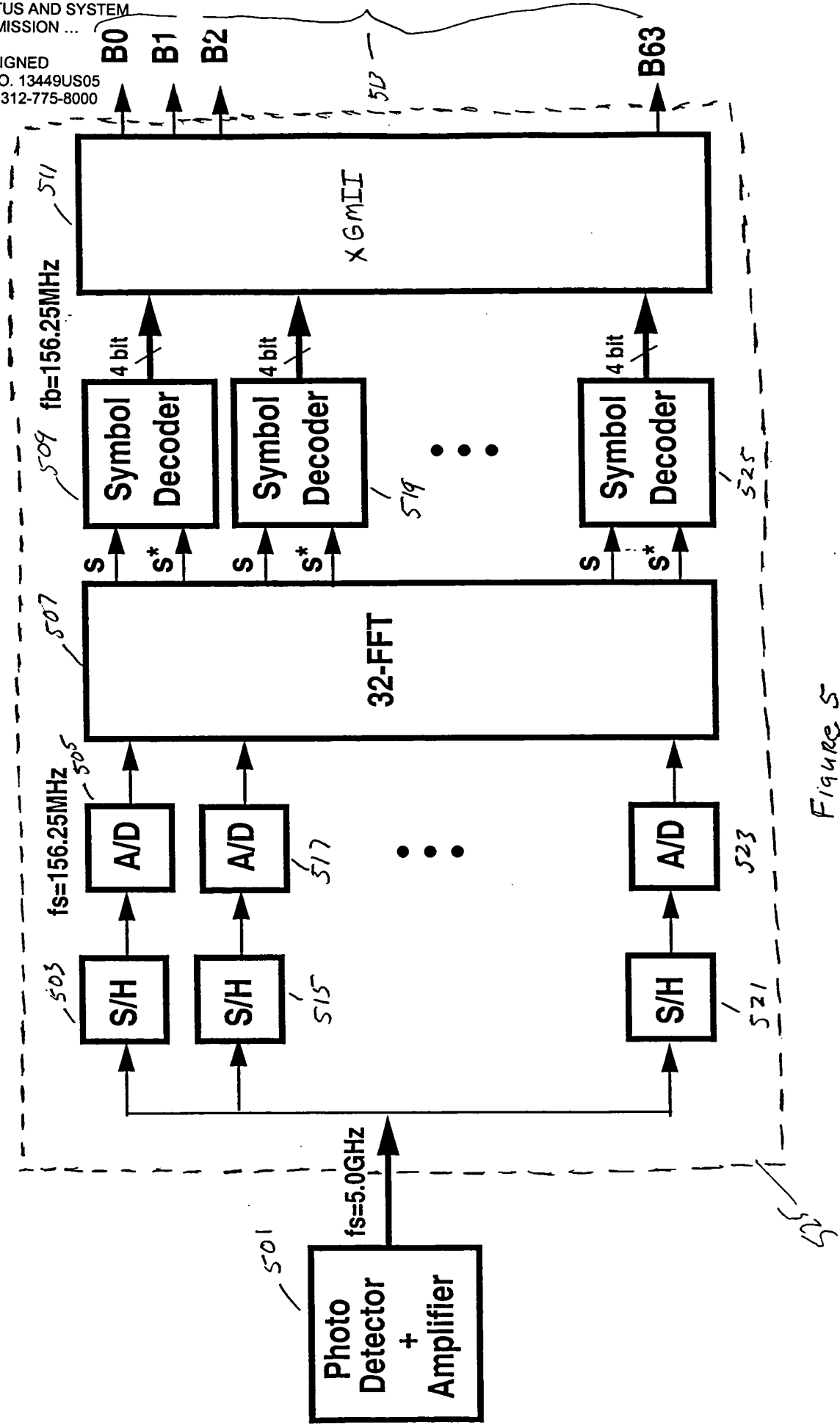


TITLE: METHOD, APPARATUS AND SYSTEM  
FOR HIGH-SPEED TRANSMISSION ...  
INVENTOR: AGAZZI  
APPLICATION NO.: UNASSIGNED,  
CONF. NO. : DOCKET NO. 13449US05  
ATTORNEY: JAW, PHONE: 312-775-8000

Figure 4



# Alternative Implementation of Multicarrier Modulation (Receiver)



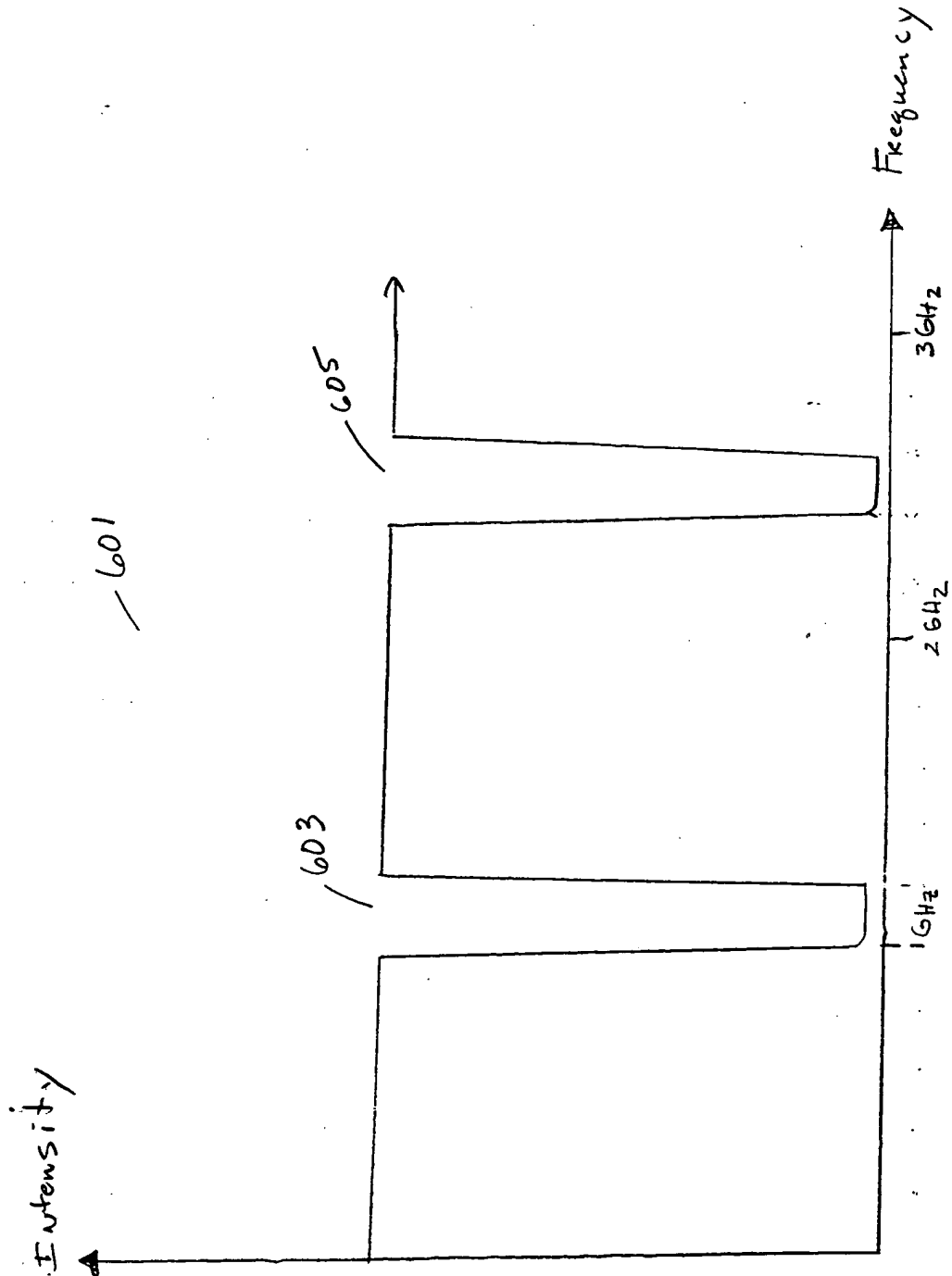
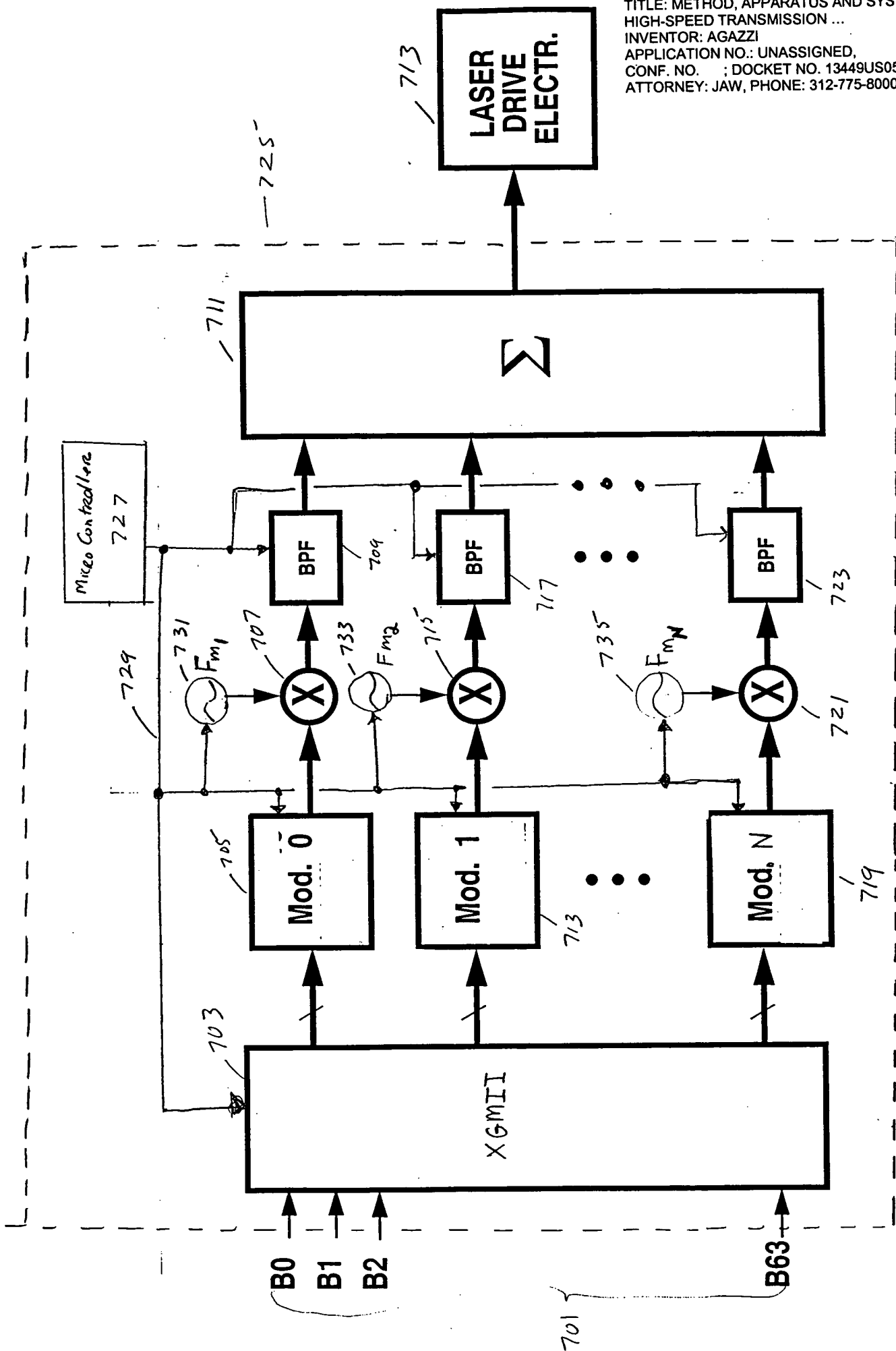


Figure 6



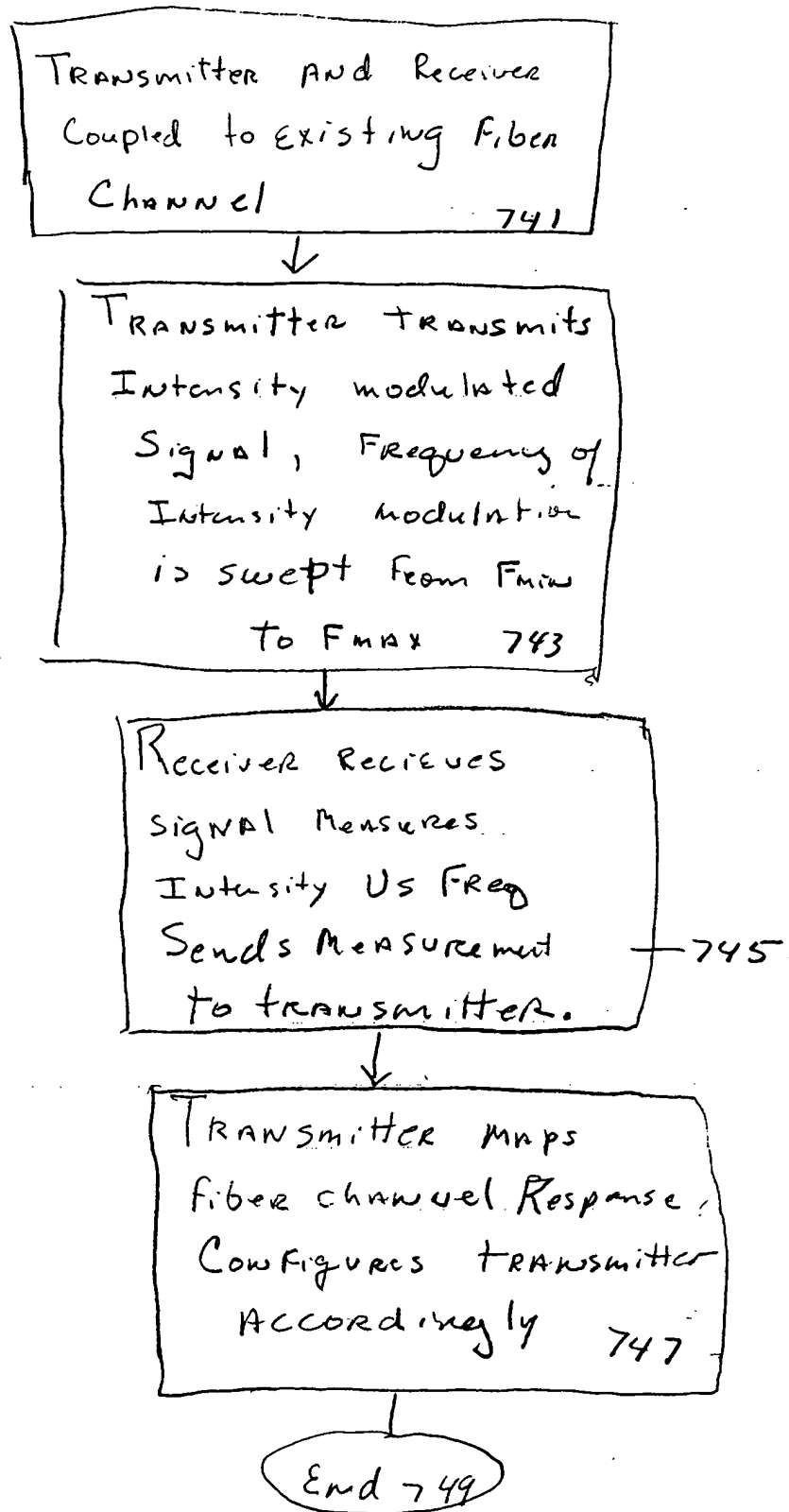


Figure 7B

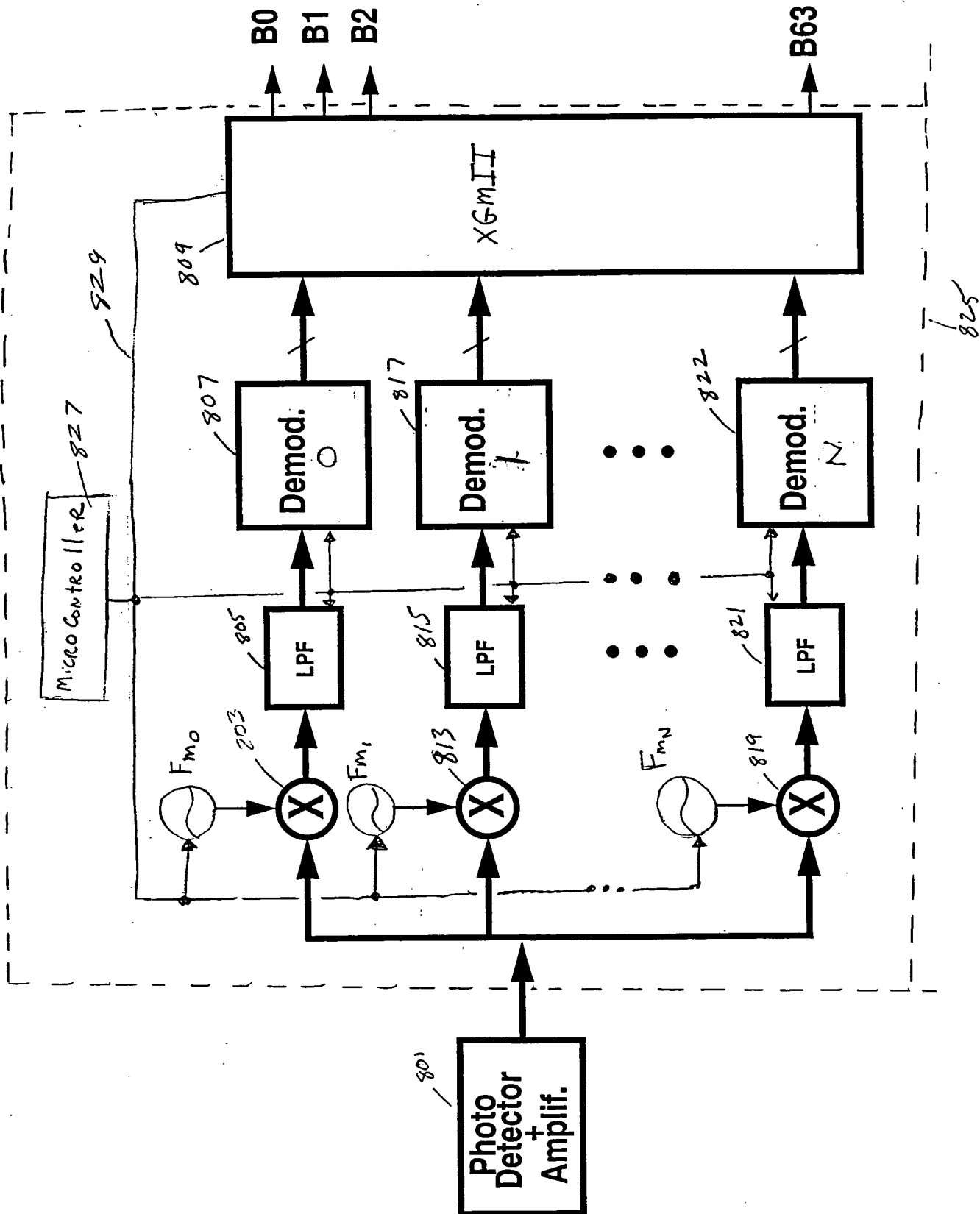


Figure 8

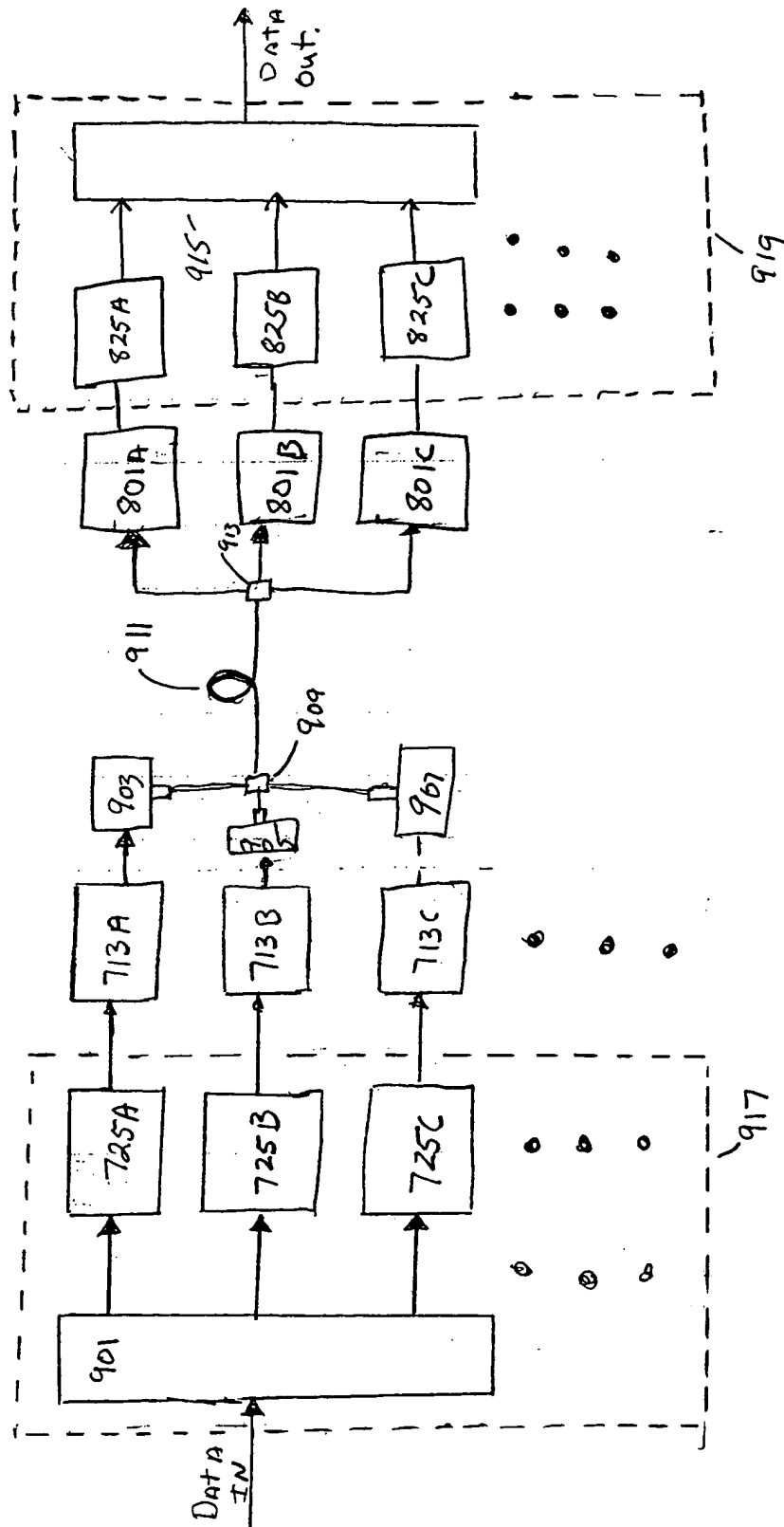


Figure 9

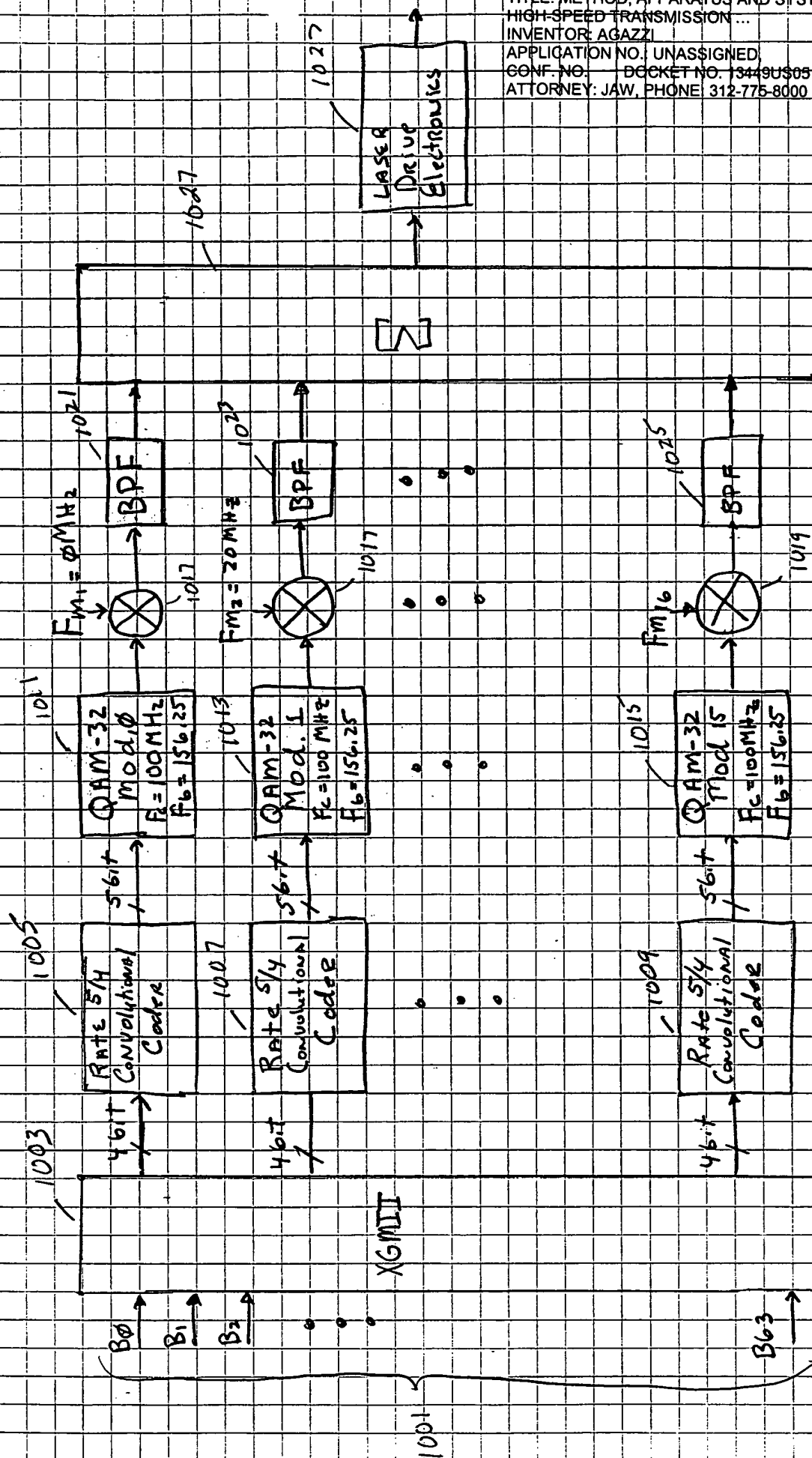


Figure 10

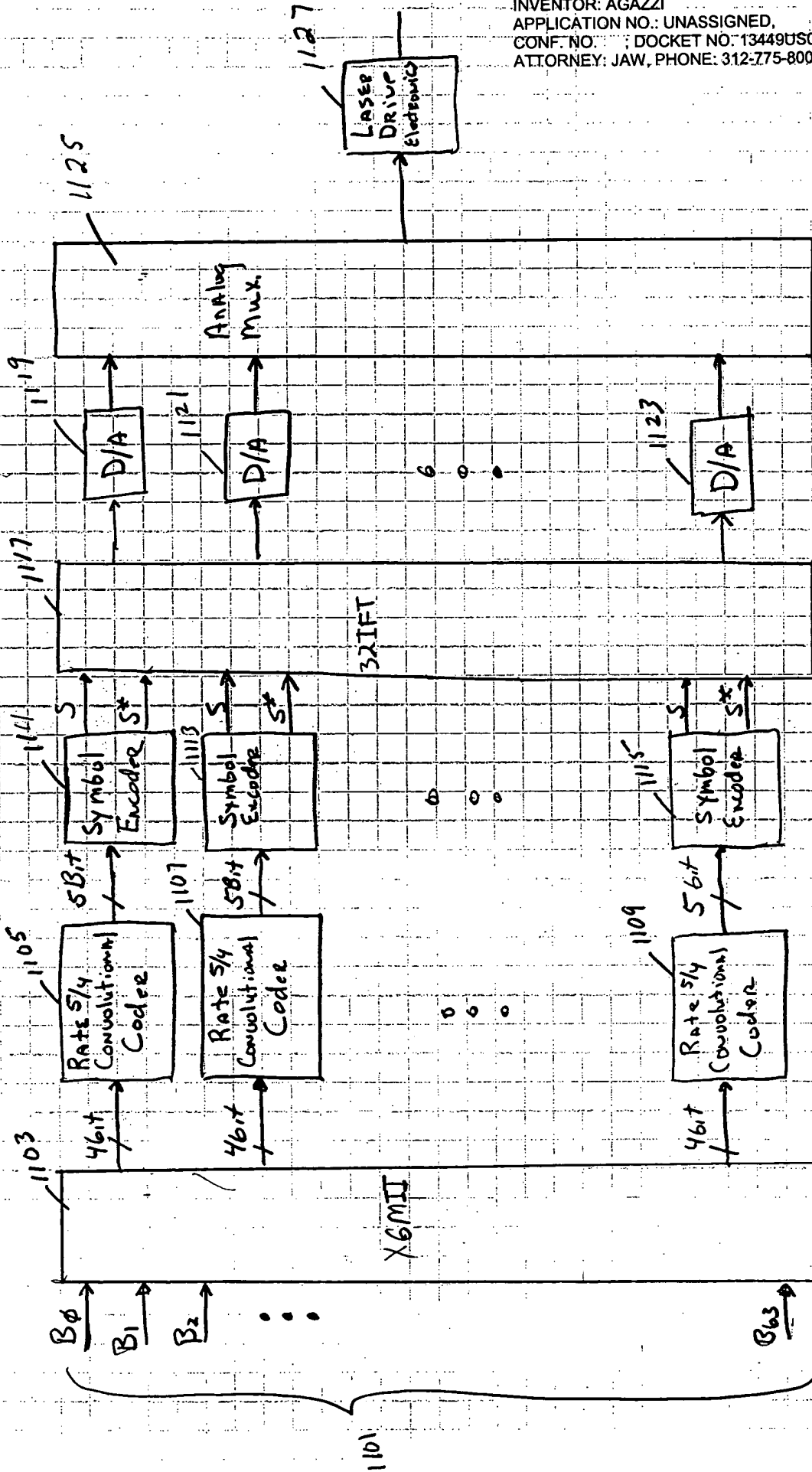


Figure 11



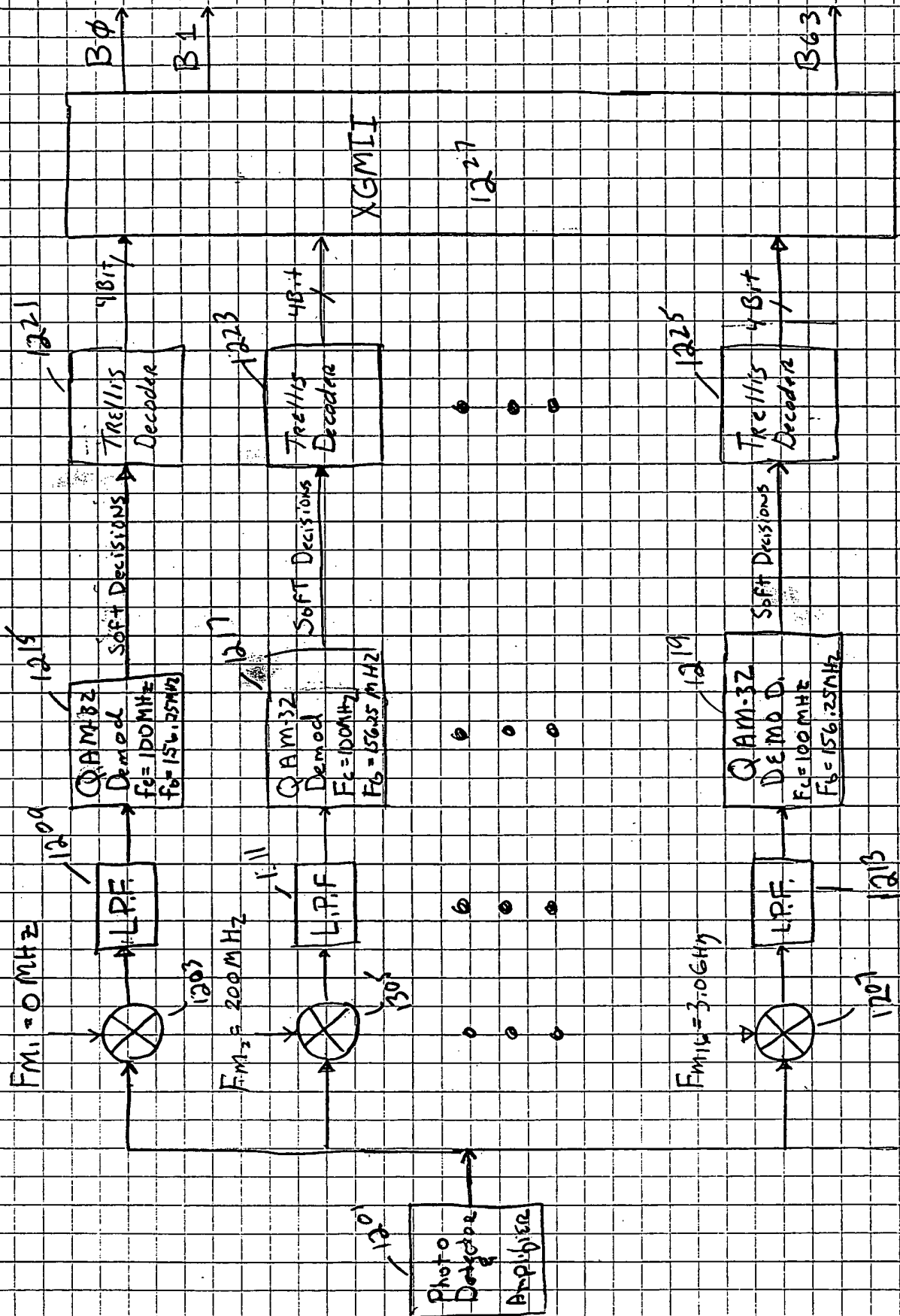


Figure 12c

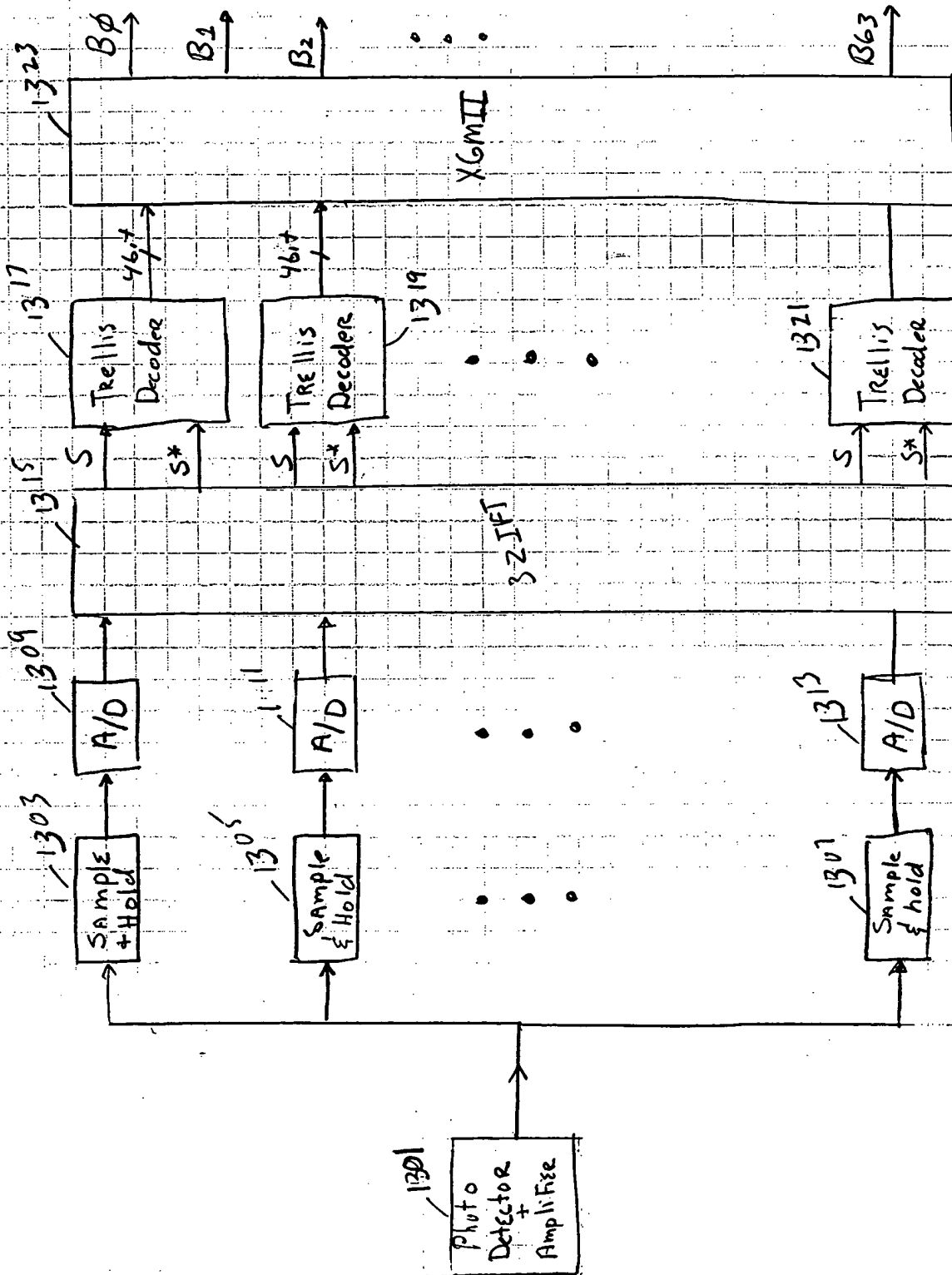


Figure 13